**Marine Life Class Activity May 2012**

**Background: Marine Life, including both plants and animals, can be classified in many ways. They can be grouped according to where they live, how or if they move and, of course, by scientific classification. Some organisms have special characteristics that make them unique or come in a variety of colors, shapes and sizes. There are hundreds of living things in and around our oceans that capture our interests every day.**

**Purpose:** Research various types of marine life and create a class diagram of Ocean Life Zones.

**Materials:** 10-4x6 unlined, white index cards; colored pencils and/or crayons; library books and resources; project worksheets (from teacher)

**Instructions:** Choose 10 marine creatures using the criteria listed below (a.). You will draw (or use an outline photo) and color them as realistically as possible on the index cards and neatly write the common name of the creature at the top of each. You will complete the Research Page for each creature you have chosen. You will add your colored and index cards to our class diagram of Ocean Life Zones. Next you will choose 10 other creatures from the class diagram to make both a food chain and a food web using the criteria listed below (b. and c.). See the rubric on the back of this page for grading specifics.

a. Criteria for Choosing 10 Creatures: When choosing your marine life you must -

* be specific, not general (examples: Loggerhead Sea Turtle, Blue Shark)
* choose 2 from each of the 5 zones (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)
* choose at least 2 from each mobility type (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)
* choose at least 4 plants and 4 animals

b. Food Chain: Choose 5 creatures (cannot be yours); 6 or more is extra credit. Make a diagram of your food chain in the right place on the worksheet provided.

c. Food Web: Choose 10 other creatures (still not yours); more are extra credit. Make a diagram of your food web in the right place on the worksheet provided.

**Grading: Each part of the project is worth various points. Please read carefully.**

1. You will choose 10 creatures that you will research. For each of these you must have the following information written on the Research Page (given by your teacher):

* Common Name – be specific; ***try not to duplicate others in your class if possible – ask what others are using!***
* Kingdom – if you can also find Phylum, Class, Order, Family, Genus and Species it would be great and may add extra points
* What it eats/consumes – at least 3-5 things if possible
* What are its predators – at least 3-5 if possible
* In which zone does it live and how does it move
* 4 other biological facts
* 1 point for having a colored, labeled drawing (index card) on the class poster

10 points for each creature = 100 points

2. You will create a Food Chain using the criteria on the front of this sheet. If all criteria are met and the chain is correct you will earn 20 points.

3. You will create Food Web using the criteria on the front of this sheet. If all criteria are met and the web is correct you will earn 40 points.

**This project is worth a total of 160 points.**

**Research Page**

Record the following information for each of your 10 creatures:

**(a) Common Name – be specific; *try not to duplicate others in your class if possible***

**(b) Kingdom – if you can also find Phylum, Class, Order, Family, Genus and Species it would be great and may add extra points**

**(c) What it eats/consumes – and is it a producer or consumer?**

**(d) What are its predators – at least 3-5 if possible**

**(e) In which zone does it live and how does it move**

**(f, g, h, i) 4 other biological facts**

**(j) 1 point for having a colored, labeled drawing (index card) on the class poster**

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**(a) Common Name – be specific; *try not to duplicate others in your class if possible***

**(b) Kingdom – if you can also find Phylum, Class, Order, Family, Genus and Species it would be great and may add extra points**

**(c) What it eats/consumes – at least 3-5 things if possible – and is it a producer or consumer?**

**(d) What are its predators – at least 3-5 if possible**

**(e) In which zone does it live and how does it move**

**(f, g, h, i) 4 other biological facts**

**(j) 1 point for having a colored, labeled drawing (index card) on the class poster**

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**(a) Common Name – be specific; *try not to duplicate others in your class if possible***

**(b) Kingdom – if you can also find Phylum, Class, Order, Family, Genus and Species it would be great and may add extra points**

**(c) What it eats/consumes – at least 3-5 things if possible – and is it a producer or consumer?**

**(d) What are its predators – at least 3-5 if possible**

**(e) In which zone does it live and how does it move**

**(f, g, h, i) 4 other biological facts**

**(j) 1 point for having a colored, labeled drawing (index card) on the class poster**

7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**(a) Common Name – be specific; *try not to duplicate others in your class if possible***

**(b) Kingdom – if you can also find Phylum, Class, Order, Family, Genus and Species it would be great and may add extra points**

**(c) What it eats/consumes – at least 3-5 things if possible – and is it a producer or consumer?**

**(d) What are its predators – at least 3-5 if possible**

**(e) In which zone does it live and how does it move**

**(f, g, h, i) 4 other biological facts**

**(j) 1 point for having a colored, labeled drawing (index card) on the class poster**

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\*\* Can do 2 more for extra credit\*\* - points depend on creatures chosen and answers given ☺

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**Food Chain**

List the 5 creatures that you are using:

Include whether the organism is a producer, consumer, etc.

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2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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\*6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(\* = extra credit) Draw and label your Food Chain below:

**Food Web**

List the 10 creatures that you are using:

Include whether the organism is a producer, consumer, etc.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Draw and label your Food Web below: